**MARINEQUEST**
more than just another day at the beach

“I really liked learning about renewable energy sources and getting to use some of the equipment that coastal engineers actually use. I even got to handle a shark!” - Amanda M.

**TechnOcean Jr** Join MarineQuest as we explore the exciting fields of marine technology and coastal environmental engineering. Jump aboard the RV Humpback and travel to an undeveloped barrier island to experience first-hand how natural and artificial barriers are used to protect coastlines. Catch a breeze as you discover how wind can be used as a natural energy source. Ride waves as you build a wave energy machine and take a dip as you listen to the sounds of the sea with your own homemade hydrophone.

**Mission:** Students will learn how marine engineers and technology specialists manage our coastlines, protect habitats and explore alternative energy sources associated with the coast.

**Field Sites:**
- Beach
- Marsh
- Coquina outcrop
- Jetty
- Research vessel
- UNCW Center for Marine Science

**Activities:**
- Learn how scientists track marine animals through global satellite positioning (GPS) and use it to find simulated animal nesting sites
- Discover the sounds under the sea as you build your own hydrophone
- Learn how engineers imitate nature in modern designs (biomimicry)
- Build a wave and wind energy machine
- Use waterproof drop cameras to survey the diversity around fouling communities
- Enjoy boogie board oceanography and shallow water snorkeling

[www.uncw.edu/MARINEQUEST](http://www.uncw.edu/MARINEQUEST)
**Housing:** Residential students stay in UNCW undergraduate dormitories during their program. Our residential team supervises students from 4 p.m. to 8 a.m. and works together to ensure that every student has a welcoming, safe, educational, and fun experience. Age-appropriate roommates will be assigned unless a request is made by both students beforehand. Dorm space is divided so that all male and female rooms are located in separate areas.

**Meals:** The majority of meals will be had in the campus dining hall with the exception of some lunches which will be packaged by the dining hall and had off-site. We make every effort to accommodate medically-based dietary needs, but requests must be made in advance.

**Classrooms & Laboratories:** Classes take place in UNCW classrooms, laboratories, and at the Center for Marine Science. All laboratory activities are conducted under the safest possible conditions, using goggles and gloves when necessary. Field studies take place at research sites located in various coastal habitats.

**Transportation:** Students are transported to field sites and classrooms in vans or buses driven by trained personnel. Transportation by water is provided on UNCW research vessels and U.S. Coast Guard inspected boats all of which are piloted by licensed captains. When on or near water, students are always accompanied by a lifeguard in addition to the instructional staff.

**Staff:** MarineQuest staff includes scientific faculty, graduate and undergraduate students. Our staff are screened through and pass criminal background checks, are trained in first aid and CPR and attend professional development workshops on working with youth (including behavior management techniques). Our instructional staff meet rigorous academic standards for content knowledge and teaching skills. When appropriate for specific positions, staff are lifeguard certified, trained to lead kayak expeditions, scuba dive certified and attend the UNCW 15 passenger van training. Residential staff receive specialized training in assessing students’ well-being, including supervision of nutrition, sleep needs and conflict resolution. Everyone who works for the program shares a passion and enthusiasm for the marine environment and for working with youth.

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For more information or to register, visit [www.uncw.edu/MARINEQUEST](http://www.uncw.edu/MARINEQUEST)
e-mail marinequest@uncw.edu
or call 910.962.2640